

Title (en)
ZINC/AIR CELL

Title (de)
ZINK-LUFT-ZELLE

Title (fr)
PILE AIR/ZINC

Publication
EP 1430562 A2 20040623 (EN)

Application
EP 02725559 A 20020409

Priority
• US 0210956 W 20020409
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Abstract (en)
[origin: WO02084761A2] A zinc/air button cell comprising a cathode casing and an anode casing wherein the anode casing is inserted into the cathode casing. The anode casing is formed of multilayered metal layers, for example nickel/stainless steel/copper. A protective metal is plated onto the exposed peripheral edge of the anode casing. The protective metal is desirably selected from copper, tin, indium, silver, brass, bronze or gold. The application of the protective metal covers the multilayered metals exposed along the peripheral edge surface. The protective metal is also desirably plated onto the portion of the outside surface of the anode casing abutting the insulating the insulating material placed between the anode and cathode casing. Application of the protective metal to the anode casing peripheral edge eliminates the potential gradients caused by exposure of the different metals comprising the multilayered material. This reduces the chance of electrolyte leakage which can be promoted by secondary reactions occurring along the anode casing peripheral edge.

IPC 1-7
H01M 12/06; **H01M 2/02**

IPC 8 full level
B22F 1/00 (2006.01); **C22C 18/00** (2006.01); **H01M 4/42** (2006.01); **H01M 4/90** (2006.01); **H01M 12/06** (2006.01); **H01M 50/119** (2021.01); **H01M 50/128** (2021.01); **H01M 50/133** (2021.01); **H01M 50/145** (2021.01); **H01M 50/188** (2021.01)

CPC (source: EP US)
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Citation (search report)
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